



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 23]

नई दिल्ली, शनिवार, जून 6, 1992 (ज्येष्ठ 16, 1914)

No. 23]

NEW DELHI, SATURDAY, JUNE 6, 1992 (JYAISTHA 16, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

### THE PATENT OFFICE

#### PATENTS AND DESIGNS

Calcutta, the 6th June 1992

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

Patent Office Branch,  
Todi Estates, III Floor,  
Lower Parel (West), Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

1—97 GI/92

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules 1972 will be received only at the appropriate Offices of the Patent Office.

*Fees* :—The fees may either be paid in cash or may be sent by Money Order or Postal Order payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

एकल तथा अभिकल्प

कलकत्ता, दिनांक 6 जून 1992

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रवर्धित हैं :—

पेटेंट कार्यालय शाखा, टोली इस्टेट,  
तीसरा तल, जोधर पराने (पश्चिम),  
बम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
जोन एवं संघ शासित क्षेत्र गोवा, दमन तथा  
दिव एवं दादरा और नगर द्वीपों ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार लखन,  
सरस्वती मार्ग, करोन बाग,  
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,

61, बाबासाहेब रोड,

मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरै, सक्करापीप  
मिनिकाय तथा जमिनीद्वीप द्वीप

तार पता—“पेटेंटोफिस”—

पेटेंट कार्यालय (प्रधान कार्यालय)  
निजाम पैसेंस, द्वितीय बहुतलीय कार्यालय,  
भवन, 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020 ।

भारत का सब सेब क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 से अपे-  
क्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रत्येक पेटेंट  
कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे ।

टिप्पणी :—कुत्तों की अवांसी या तो तब की आवेदन अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य बनावले अथवा  
आवेदन या जहां उपर्युक्त कार्यालय अवस्थित  
है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुग-  
तान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा की जा सकती है ।

## GOVERNMENT OF INDIA

## THE PATENT OFFICE

Calcutta, the 6th June 1992

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20.

The dates shown in the crescent brackets are the dates  
claimed under section 135, of the Patents Act, 1970.

The 28th April 1992

290/Cal/92 Polygram international holding B.V. and N.V.  
‘Philips’ Gloeilampenfabrieken. Recorded cas-  
sette for a system for Magnetically Recording/  
Reproducing Signals”.

291/Cal/92 W.E. Moller & Sons Pty. Ltd., Sugar cane  
Harvester.

292/Cal/92 Licentia Patent-Verwaltungs-GmbH. Mechanism  
of an automatic safety switch.

The 29th April 1992

293/Cal/92 Flakt India Ltd. Air distribution unit.

294/Cal/92 Pennwalt Corporation. Process for preparing  
alkanesulfonyl chlorides.  
[Divided out of No. 864/Cal/88 antedated to  
17-10-88].

295/Cal/92 Pennwalt Corporation. Process for preparing  
alkanesulfonyl Chlorides.  
[Divided out of No. 864/Cal/88 antedated to  
17-10-88]

296/Cal/92 Vishnu Kumar Kheria. A disposable device for  
instant mixing of desired ingredient(s) with  
desired liquid.

The 30th April 1992

197/Cal/92 Fritz Stahlecker and Hans Stahlecker. A ring  
spinning machine.

298/Cal/92 Hoechst Aktiengesellschaft. Nitrogen-containing  
surface-active agents.

299/Cal/92 K. Rajagopalan. Improvements in or relating to  
withering of tea leaves and to an apparatus there-  
for.

300/Cal/92 Norac technologies Inc. Process for the super-  
critical extraction and fractionation of spices.

The 4th May 1992

301/Cal/92 Ommus Chemtech (P.) Ltd., Improvements in  
or relating to load carrying containers.

302/Cal/92 PLF Atochem North America, Inc. Preparation  
of alkanesulfonamides. (Additional to 913/Cal/  
89, dated to 1-11-89).

303/Cal/92 Degussa Aktiengesellschaft Temperature vari-  
able nest of heat exchanger tubes for constant  
quantitative ratios of the exchange gases and a  
heat exchange process.

304/Cal/92 Thyssen stahl AG. Method of producing grain-  
oriented electrical steel sheets or strips.

## The 5th May 1992

- 305/Cal/92 Ashia Mukherjee. Applications of porous electrodes.
- 306/Cal/92 Conoco Specialty Products Inc. Hydrocyclone separator.
- 307/Cal/92 Eaton Limited. Resistor element to withstand high temperatures.
- 308/Cal/92 Emerson electric Co. Plug in Hub Ring.

Applications for patent filed at the Patent Office Branch, Municipal Market Building, IIIrd Floor, Karol Bagh, New Delhi-110005.

## The 9th March 1992

- 203/Del/92 Prochind S.p.A., "Tubular coupling with an incorporated electrically isolated flange for metal pipelines and the like".
- 204/Del/92 Russel Douglas Ide, "Beam mounted friction pads for use in friction brakes and clutches".
- 205/Del/92. Exxon Chemical Patents, Inc., "Improved viscosity modifier polymers".
- 206/Del/92 Bicc Public Ltd. Co., "Optical fibre fusion splice". (Convention date 8th March, 91) (U.K.).
- 207/Del/92. Motorola Inc., "Global satellite communication system with geographic protocol conversion".
- 208/Del/92. Lift Verkaufsegerate-Gesellschaft m.b.H., "Metal sheet bending device".
- 209/Del/92. Motorola Inc., "Feed forward amplifier network with frequency swept pilot tone".
- 210/Del/92. The Procter & Gamble Co., "Stable mild liquid soap personal cleanser".
- 211/Del/92. The Procter & Gamble Co., "Hair care compositions having styling/conditioning agent and plasticizer".
- 212/Del/92. The Procter & Gamble Co., "Liquid soap personal cleanser with critical heat cycle stabilizing system".

## The 10th March 1992

- 213/Del/92. Council of Scientific & Industrial Research "An improved process for the preparation of polyvinyl alcohol membranes containing immobilized enzymes".
- 214/Del/92. Council of Scientific & Industrial Research, "An improved process for the preparation of transparent silica glass".
- 215/Del/92. Council of Scientific & Industrial Research, "An improved ferromagnetic fluid seal useful for sealing string engine crankshafts".
- 216/Del/92. Council of Scientific & Industrial Research, "A device useful for the detection of faecal coliform bacteria in waste water".
- 217/Del/92. Thumswamy Joseph Davil, "Pumpless room air cooler & spray system".
- 218/Del/92. The Lubrizol Corporation, "Reaction products of a boron compound and a phospholipid, and lubricants and aqueous fluids containing same".
- 219/Del/92. The Lubrizol Corporation, "Lubricating compositions".
- 220/Del/92. The Lubrizol Corporation, "Lubricating compositions".
- 221/Del/92. The Lubrizol Corporation, "Overbased alkali metal salts and methods for making the same".

## The 11th March 1992

- 222/Del/92. Aktiebolaget Astra, "New Active compounds".
- 223/Del/92. Lawrence Edward Helyer, "Machine tool". (Convention date 12th March, 91, (U.K.).

224/Del/92. Sime Industrie "Fluid coupling".

225/Del/92. Olin Corporation "Non-catalytic oxidation of propylene to propylene oxide".

## The 12th March 1992

- 226/Del/92. Paul Wurth S.A., "Process for inserting a boring rod into the tap hole of a shaft furnace, boring machine and Bldirectional clamp".
- 227/Del/92. N. V. Bekaert S.A., "Reinforcing Strip".
- 228/Del/92. GEC Alsthom S.A., "Apparatus for incremental measurement of the displacement of a part that is movable in translation, in particular a circuit breaker control rod".

## The 13th March 1992

- 229/Del/92. Council of Scientific & Industrial Research, "A device for casting monolithic containers".
- 230/Del/92. Council of Scientific & Industrial Research, "An improved process for the preparation of a N-butylacetanilide".
- 231/Del/92. The Johnson Corporation, "Impact resistant rotary joint".
- 232/Del/92. The Gillette Co., "Shaving compositions".

## Alteration of date U/S 16

Alteration of an entry in the Register of Patent Agent under Rule 103 of the Patents Rules, 1972.

In pursuance of an application on Form 52 the address of principal place of business of the Registered Patent Agent has been altered to :—

ANDALATT HOUSE  
Thathapilly P.O.  
N. Patur,  
KERALA

## ALTERATION OF DATE UNDERSECTION 16.

170890

Antedated to January 14 1988.

(914/Cal/90)

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra). Requisition for the supply of the specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

**स्वीकृत सम्पूर्ण विनिर्देश**

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्याक मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है।

(अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उद्देश्य से उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Class : 136 C

170861

Int. Cl. : B 29 C 47/00.

**APPARATUS FOR CONTINUOUSLY EXTRUDING SYNTHETIC THERMOPLASTIC MATERIAL.**

Applicant : INDUPACK AG. GARTENSTRASSE 2, 6300 ZUG, SWITZERLAND.

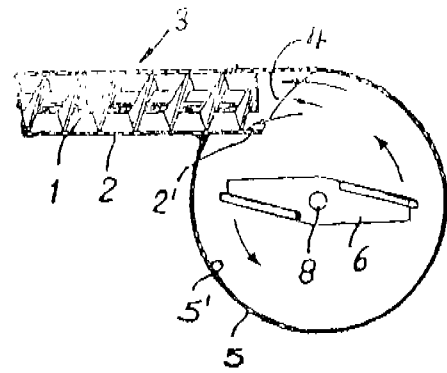
Inventor : GOETZ PETSCHNER.

Application No. 621/Cal/88 filed on 26 July, 1988.

Appropriate office for opposition processing (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

**5 Claims**

An apparatus for continuously extruding synthetic thermoplastic material, comprising a receiving container, containing a disintegrating and blending member, which is disposed near the bottom of the container and which rotates about the axis of the container and with which a screw extruder is in flow connection through an opening in the wall of the container; wherein the cylinder (2), surrounding the extruder screw (1) of the screw extruder (3), opens out with its front-end charging opening (4) at least approximately tangentially in the inside wall (5') of the receiving container (5).



Compl. specn. 11 pages

Drawgs 1 sheet

Class : 128 H

170862

Int. Cl. : A 61 F, 13/16.

**A SANITARY NAPKIN.**

Applicant : PERSONAL PRODUCTS COMPANY OF VAN LIEW AVENUE, MILLTOWN, NEW JERSEY-08850, UNITED STATES OF AMERICA.

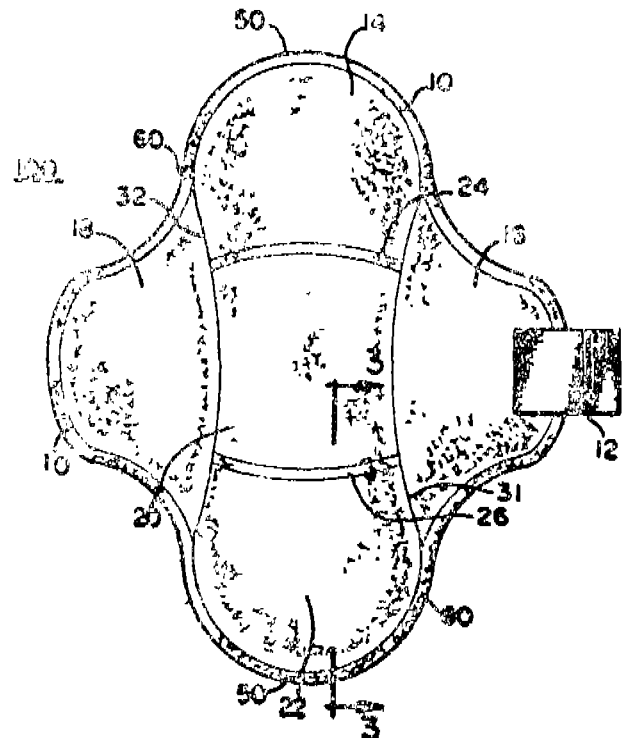
Inventors : (1) KENNETH J. MOLEE  
(2) KENNETH B. WILSON.

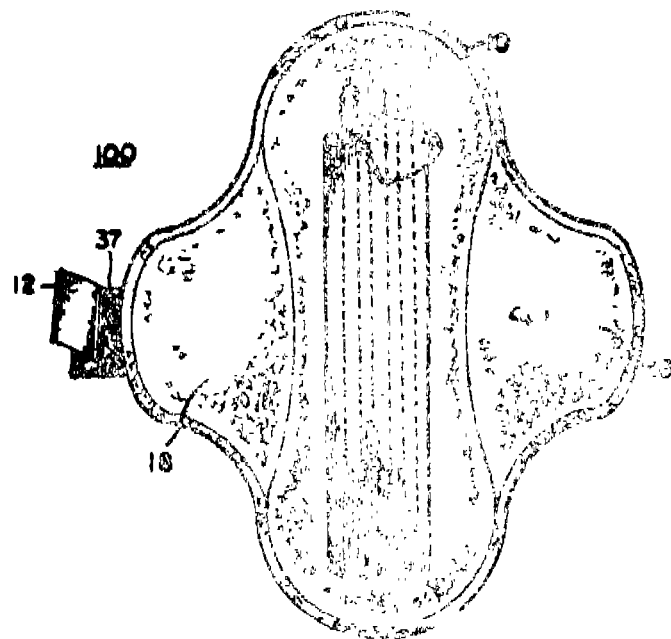
Application No. 695/Cal/88 filed on 19 August, 1988.

Appropriate office for opposition processing (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

**29 Claims****A sanitary napkin comprising :**

- (a) an absorbent element having longitudinally extending sides and transverse ends; characterized by
- (b) flaps extending laterally from each of said longitudinally extending sides of said absorbent element; and
- (c) a fluid retarding means disposed transversely across said element for inhibiting the transmission of body fluid from a central portion of said absorbent element to one of said transverse ends.





Compl. specn. 22 pages

Drwgs. 3 sheets.

Class : 128 K G

170863

Int. Cl. : A 61 M 3/00, A 61 L 17/00,

A 61 B 17/00.

## ROD FOR A SURGICAL SUTURING INSTRUMENT.

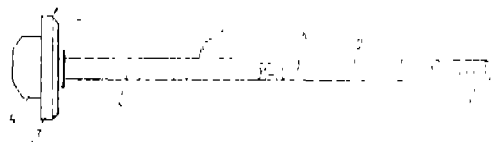
Applicant & Inventors : NIKOLAI NIKOLAEVICH KANSHIN OF U.S.S.R. MOSCOW, ULITSA MALAYA FITEVSKAYA, 68, K.V. 10 and VIKTOR ALEXEEVICH IIPATOV OF USSR, MOSCOW, ULITSA PROFSOJUZ-NAYA, 91, KORPUS 3, K.V. 27.

Application No. 747/Cal/88 filed on 7th September 1988.

Appropriate office for opposition processing (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 3 Claims

A rod for a surgical suturing instrument for establishing circular anastomoses between the organs of the digestive tract, comprising a supporting head for formation of a suture for the circular anastomosis characterized in a built-up stem composed of two different length portions, of which the shorter one carries the supporting head and is removably held to the other stem portion.



Compl. specn. 8 pages

Drwgs 2 sheets

Class : 68 C

170864

Int. Cl. : H 02 K, 37/04.

## ELECTRIC DRIVE ASSEMBLY.

Applicant &  
Inventors :

(1) ANDREI DMITRIYEVICH PLOTNIKOV,  
OF USSR Leningrad, PROSPEKT  
NASTAVNIKOV, 25, KORPUS 3, K.V.  
101.

(2) NILOLAI PAVLOVICH POPOV OF  
USSR, Leningrad, KOLPINO, PRO-  
LETARSKAYA ULITS, 107, K.V. 76.

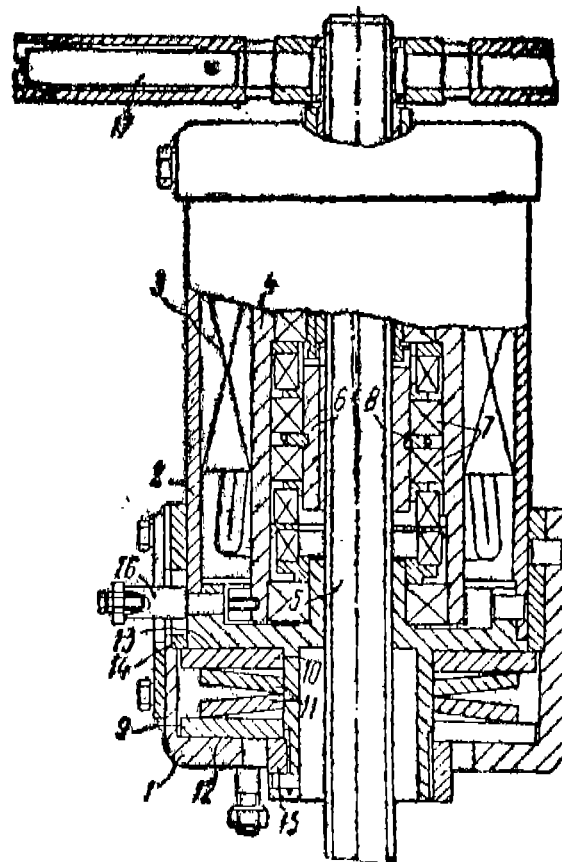
(3) GRIGORY NAUMOVICH KLOTSVOG  
USSR, Leningrad, ULITS GAVAN-  
SKAYA, 11, K.V. 43, ALL ARE USSR.

Application No. 824/Cal/88 filed on 5th October 1988.

Appropriate office for opposition processing (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 2 Claims

An electric drive assembly comprising a base, an electric motor including a frame with a stator and a hollow rotor mounted therein, a lead screw arranged in the hollow rotor, an axial force limiter formed by two washers with a resilient member interposed there between and having its ends contacting each the respective washer, an assembly kinematically coupled with the axial force limiter and mounted for axial movement characterized in that said assembly is the frame of the electric motor, said base being provided with a stop facing the pressure surface of the electric motor frame, the electric motor frame being provided with a stop facing the bearing surface of the base, and the axial force limiter being located between the bearing surface of the base and the pressure surface of the electric motor frame.



Compl. specn. 9 pages

Drwgs. 1 sheet

Class : 80 K

170865

Int. Cl. : B 01 D 35/30.

## WATER PURIFICATION DEVICE WITH AN INTAKE FUNNEL.

Applicants : BRITA WASSER-FILTER-SYSTEME GMBH,  
OF WALDS RASSE 4, 6204 TAUNUSSTEIN 4, WEST  
GERMANY.

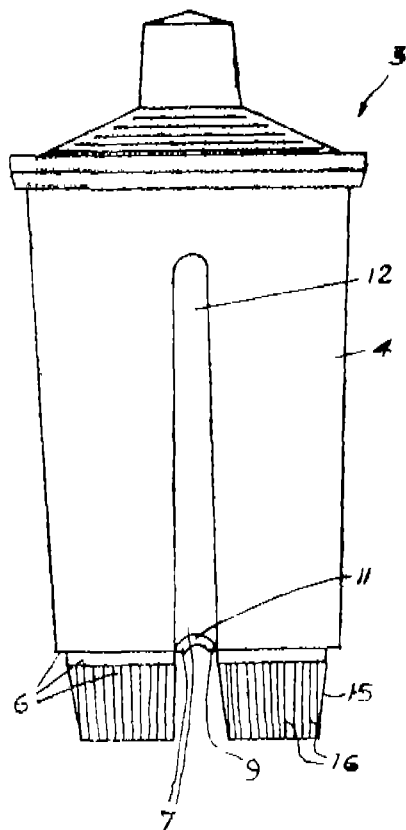
Inventors : HEINZ HANKAMMER.

Application No. 837/Cal/88 filed on 26 October 1988.

Appropriate office for opposition processing (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 9 Claims

A water purification device having an intake funnel, a sleeve which is sealingly connected thereto and an insert which has substantially cylindrical side walls, a filter cover and a filter bottom and in which a granulate-type purification agent can be introduced, wherein the filter bottom has an air collecting space which is extended upwardly at least partially towards the side wall.



Compl specn. 15 pages.

Drwgs. 2 sheets.

Class : 29 A

170866

Int. Cl. : G 06 F, 15/00.

A DATA PROCESSING SYSTEM.

Applicant : MEGAWORD INTERNATIONAL PTY. LTD.

OF LEVEL 16,456 KENT STREET, SYDNEY, 2000, IN THE STATE OF NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Inventors : (1) JOHN DOUGLAS MOORE  
(2) PETER GEORGE SWAIN  
(3) ROGER BIXBY PURCELL  
(4) JOHN HILTON.

Application No. 973/Cal/88 filed on 25th November 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 7 Claims

A data processing system connectable to a memory (400) comprising a text having being processed in a manner such as hereinbefore described, said text comprising words represented by binary character code in order to store the text in memory, said system comprising :

means (10, 14, 16, 18, 22, 24, 26) for sequentially accessing the code representation of said text in said memory and using each word and phrase code accessed from said code to access the dictionary and phrase table files in said memory until character code is obtained therefrom, said means (10, 14, 16, 18, 22, 24, 26) recursively accessing said phrase table file by phrase code until word code is retrieved for accessing said dictionary file.

means (50, 52) for displaying at least part of said text corresponding to the obtained character code,

said displaying means (50, 52) being controlled by said accessing means (10, 14, 16, 18, 22, 24, 26); and

means (60) for receiving a signal indicating that a predetermined word or phrase is to be searched for in the text, said accessing means (10, 14, 16, 18, 22, 24, 26) being responsive to said receiving means (60) for accessing said dictionary file and phrase table file to determine the corresponding binary word and/or phrase code to be searched for in said stored text in order to locate said predetermined word or phrase, and for searching said stored text on the basis of said corresponding binary code and said displaying means (50, 52) being responsive to said accessing means (10, 14, 16, 18, 22, 24, 26) for displaying a location of said predetermined word or phrase in said text.

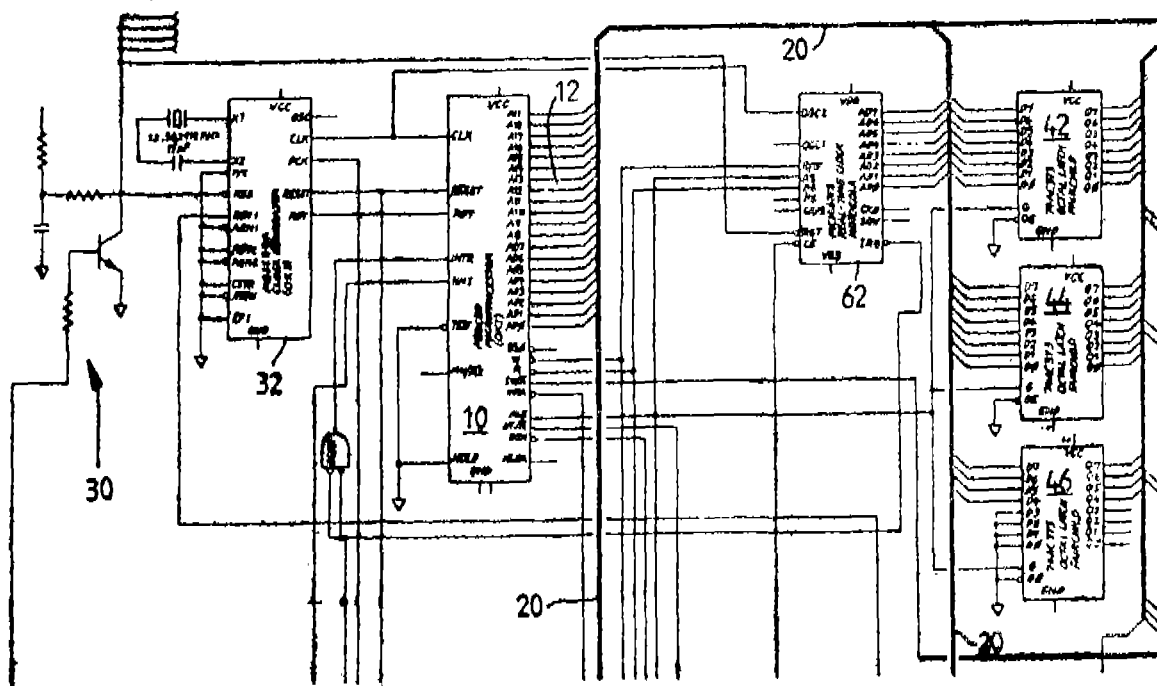


Fig. 2a

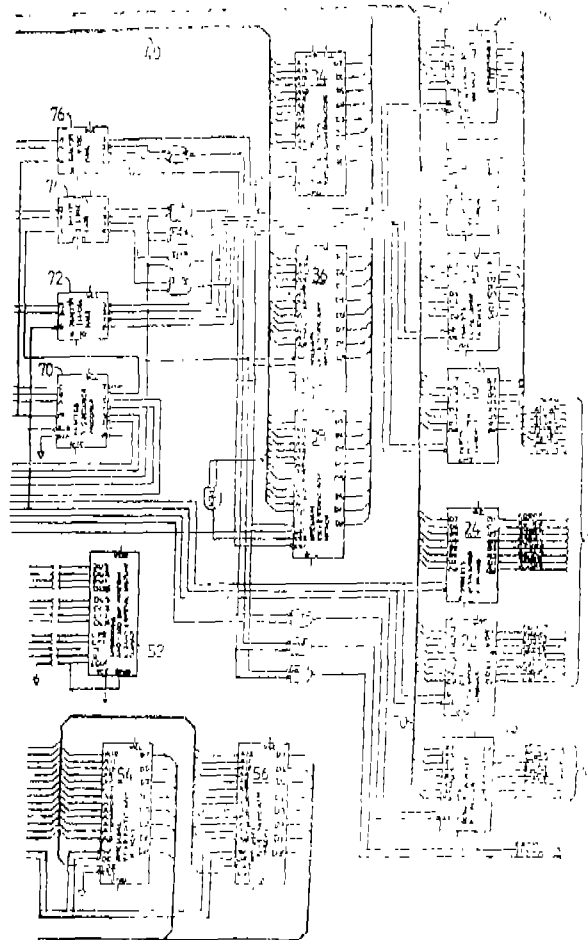


Fig. 2b

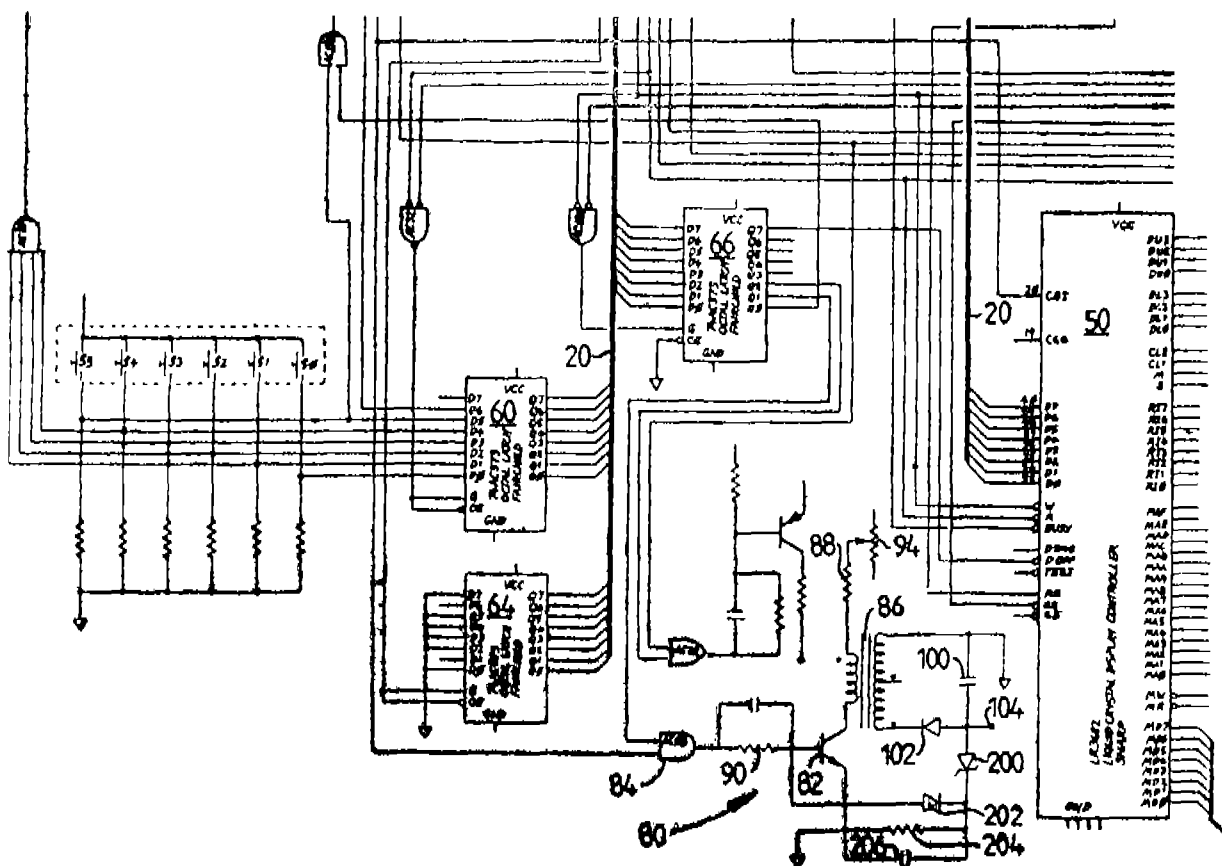


Fig. 2c

Ind. Cl. : 130 F

170867

Int. Cl. : B 22 D, 41/02.

REFRACTORY VALVE PLATES FOR SLIDING GATE VALVE & A SLIDING GATE VALVE MADE THEREOF.

Applicants : STOPING AG., OF 76A, CH-6340 BAAR,  
SWITZERLAND

Inventor : ROBERT FRICKER.

Application No. 1022/Ca1/88 filed on 13th December, 1988.

Appropriate office for opposition processing (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 16 Claims

A refractory valve plate for a sliding gate valve for controlling the flow of a molten metal, the plate having at least one flow opening and a metal band surrounding the peripheral surface of the plate, the plate having a machined metallic cylindrical surface having a height such as herein described centrally disposed with respect to the flow opening which, in use, is engaged by a metallic frame of the valve to locate the plate with respect to the frame.

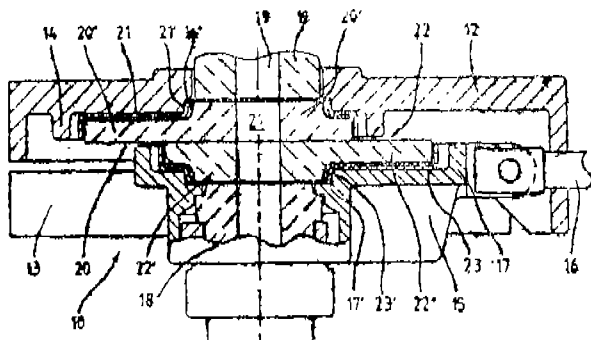


Fig- 1

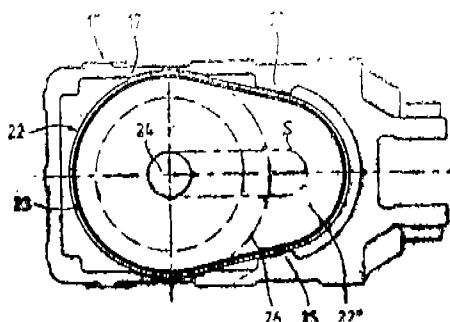


Fig 2

Compl. specn. 14 pages

Drwgs. 3 sheets.

Ind. Cl. : 190 B

170868

Int. Cl.<sup>4</sup>: G 05 B 11/00.

# AN AIR INLEAKAGE MONITOR CONTROL SYSTEM FOR A STEAM TURBINE AIR INLEAKAGE EXHAUST SYSTEM.

Applicants : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

**Inventors : MICHAEL TWERDOCHLIB.**

Application No. 106/Cal/89 filed on 3rd February, 1989

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

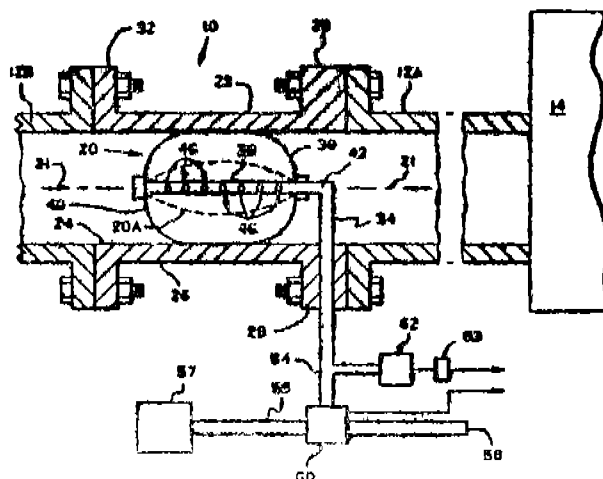
## 2 Claims

An air leakage monitor control system (70) for a steam turbine air leakage exhaust system having an exhaust vent pipe (12):

a bypass valve (10) positioned in an exhaust vent pipe (12) for selectively blocking air exhaust from the turbine through the pipe (12); the system characterized by:

flowmeter means (78) connected in parallel with said bypass valve (10) for providing a bypass path for air exhausted from the turbine, said flowmeter means (78) providing an output signal representative of the flow rate therethrough;

processor means (86) connected for receiving said output signal from said flowmeter means (78) and for comparing said output signal with first and second predetermined values representative of first and second flow rates, respectively, said processor means (86) being operable in a first mode to convert the output signal from said flowmeter means into display signals for providing a visual indication of flow rate through said flowmeter means, said processor means being operable in a second mode for controlling operation of said bypass valve, said first mode being initiated when flow through said flowmeters means is less than the first flow rate and said second mode being initiated when flow through said flowmeter means is greater than the second flow rate, said processor means (86) providing a signal to effect closing of said bypass valve (10) during said first mode and providing a signal to effect opening of said bypass valve during said second mode.



Compl. specn. 18 pages

Drwgs. 4 sheets.

Ind. Cl. : 36 B,

170869

Int. Cl. : F 04 D, 29/08.

### REFRIGERATION COMPRESSOR.

Applicants : COME AND CORPORATION, OF DELA-  
WARE 1675 W CAMPBELL ROAD, SIDNEY, OHIO-  
45365 0669, UNITED STATES OF AMERICA.

INVESTIGATOR : JOHN PAUL ELSON.

Application No. 162/Ca/89 filed on 27 February, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.



## 19 Claims

A refrigeration compress or comprising :

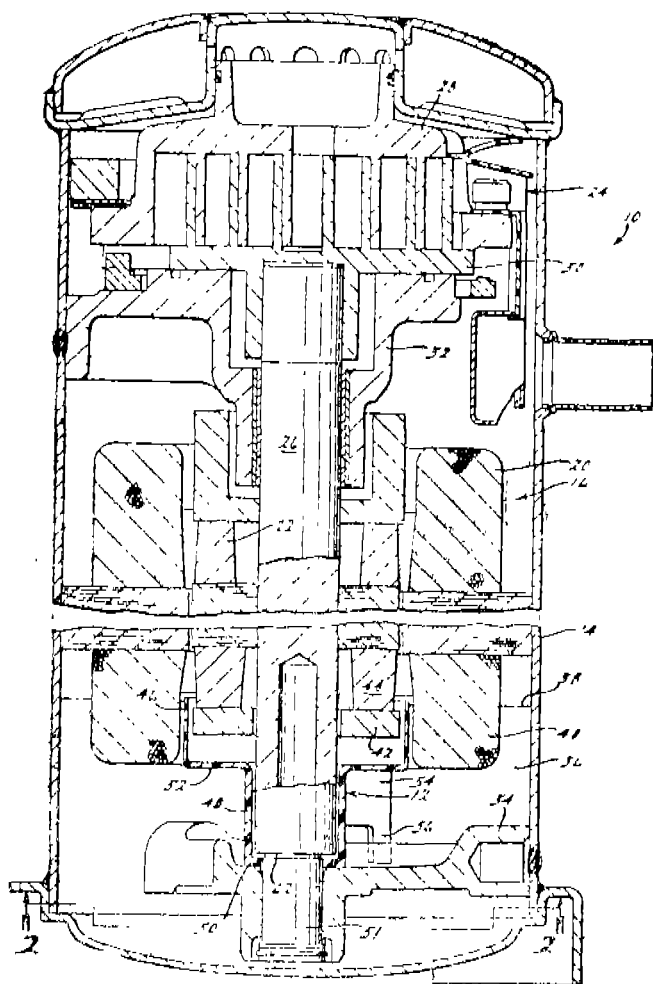
an outer shell;

a sump disposed in the bottom of said shell containing a supply of lubricant;

a compressor within said shell;

a motor disposed within said shell for driving said compressor, said motor including a stator and a rotor secured to a shaft drivingly connected to said compressor, the lower end of said rotor extending below the normal upper level of said lubricant in said sump, said shaft extending downwardly from the lower end of said rotor; and

characterized in that said compressor includes shield means extending radially outwardly from said shaft adjacent the lower end of said rotor, said shield means being positioned by said shaft and being operative to restrict oil flow to the rotating lower end of said rotor whereby power consumption of said motor is reduced.



Compl. specn. 13 pages

Drwgs. 2 sheets

Class : 32 F8b

170870

Int. Cl. : C 07 C 51/377, 59/52.

A PROCESS FOR THE OF 4-HYDROXYPHENYL ACETIC ACID FROM SODIUM-4-HYDROXYMANDALATE MONOHYDRATE.

Applicant : ICI INDIA LIMITED OF 34 CHOWRINGHEE ROAD, CALCUTTA-700 071, WEST BENGAL, INDIA.

2—97GI/92

Inventors : (1) ARUN KANTI MANDAL

(2) SATISH WASUDEO MAHAJAN

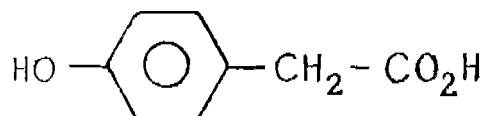
(3) DAMODHAR GABAJI JAWALKAR.

Application No. 897/Cal/1989 filed on 26 October 1989.

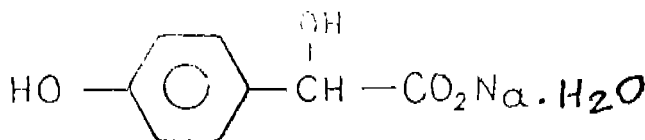
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 5 Claims

A process for the preparation of 4-hydroxyphenyl acetic acid of the formula I shown in the drawings accompanying the provisional specification from sodium-4-hydroxymandate monohydrate of the formula III shown in the drawings accompanying the provisional specification comprising reducing sodium-4-hydroxymandate monohydrate of the formula III with a reducing agent consisting of stoichiometric quantity of phosphorus (III) compounds such as herein described and catalytic or stoichiometric quantity of sulphur dioxide or equivalent salt thereof such as herein described in the presence of a solvent such as herein described at 60–120°C and at ambient to 5 atmospheres pressures and isolating the compound of the formula I from the reaction mixture in a known manner.



Formula I



Formula III

Provisional specn. 6 pages

Compl. specn. 9 pages

Drwgs. 1 sheet

Drwgs. Nil.

Ind. Class : 80-A [GROUP—VI]

170871

Int. Cl.<sup>4</sup> : B 01 D 23/00.

A PROCESS FOR PREPARING A CERAMIC FOAM FILTER FOR FILTERING MOLTEN METAL.

Applicant : SWISS ALUMINIUM LTD., A COMPANY ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CHIPPIS, SWITZERLAND.

Inventors : (1) JERRY W. BROCKMEYER, (2) LEONARD S. AUBREY and (3) JAMES E. DORE.

Application No. 169/MAS/88 filed March 16, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 7 Claims (No drawing)

A process for preparing a ceramic foam filter for filtering molten metal which comprises : preparing a reticulated organic polymerfoam in a known manner characterized in that the said foam is impregnated with an aqueous slurry of ceramic composition having silicon carbide with a known colloidal silica binder, said composition having a solids content of at least 50% silicon carbide and at least 3% silica, remaining being any known additives; drying and heating said impregnated polymeric foam to remove the organic components thereof; and firing at an elevated temperature to 2000°F to 2500°F to produce said ceramic foam filter.

(Com. 16 pages).

Ind. Class: X 64-B [GROUP—LVIII(4)]

170872

Int. Cl.<sup>4</sup>: G 01 R 29/18.

**A SYSTEM FOR THE IDENTIFICATION OF THE PHASE OF THREE INSULATING INTERCONNECTED ELECTRICAL CONDUCTORS IN AN ELECTRICAL CIRCUIT.**

Inventor: BERTRAND BOUCHARD

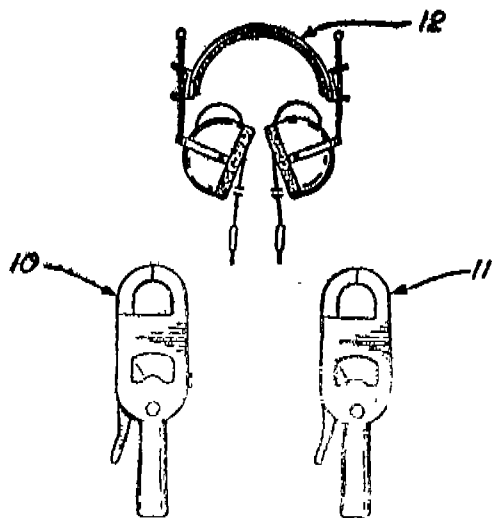
Application No. 193/MAS/88 filed March 25, 1988.

Convention date: March 27, 1987; (No. 533, 170; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 11 Claims

A system for the identification of the phase of three insulated interconnected electrical conductors in an electrical circuit, said conductors having an insulating covering over a conductive core connectable to ground above the location selected for the identification, comprising two independent signal generators for generating different audio signals and having connectors coupled by electromagnetic coupling to two of said conductors having a pre-identified phase and at an available location above the location selected for the identification of phase, said coupling being effected by magnetically coupled receiver means for receiving said different audio signals and having two clamp means connectable to any two conductors at said location selected for the identification.



(Com. 10 pages;

Drawgs 3 sheets)

Ind. Class: 32-F.3b [GROUP—IX(1)]

170873

Int. Cl.<sup>4</sup>: C 07 F 9/16.

**CATALYTIC PROCESS FOR PREPARING DIALKYL OR DIARYL PHOSPHORODITHIOIC ACID.**

Applicant: ICI AMERICAS INC., OF CONCORD PIKE AND NEW MURPHY ROAD, WILMINGTON, DELAWARE 19897, U.S.A., A.U.S. COMPANY.

Inventor: STANLEY BURTON MIRVISS.

Application No. 196/MAS/88 filed March 28, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims (No drawing)

A catalytic process for preparing dialkyl or diaryl phosphorodithioic acid comprising the steps of reacting phosphorous pentasulfide with an alkyl alcohol, aryl alcohol, alkylaryl alcohol, substituted alkylaryl alcohol or substituted arylalkyl alcohol at a temperature from 30 to 125°C in the presence of sulfonium halide or sulfoxonium halide as a catalyst in the range of 0.01 to 3.0% by weight of the reactants and recovering the dialkyl or diaryl phosphorodithioic acid in a known manner.

(Com. 14 pages)

Ind. Class: 129-J [GROUP—XXXV]

170874

Int. Cl.<sup>4</sup>: B 21 B 1/00; 1/08.

**AN IMPROVED METHOD FOR MANUFACTURING ROLLED METAL STRIP IN A ROLLING MILL.**

Applicant: HOOGOVS GROEP BV, A DUTCH COMPANY, OF P.O. BOX 10.000, 1970 CA IJMUIDEN, THE NETHERLANDS.

Inventors: (1) HENK VEGTER, (2) ADRIANUS JOZEF VAN DEN HOUGEN and (3) GERRIT JAN HEESSEN.

Application No. 198/MAS/88 filed March 29, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 2 Claims

In an improved method for manufacturing rolled metal strip in a rolling mill wherein the metal strip fed into one or more roll stands of rolling mill train, the improvement comprises applying a roll force  $F_i$  determined by the formula  $F_i = K_i \cdot KSB_i$ , in which  $K_i$  is a multiplication factor and  $KSB_i$  is the resistance to deformation of the metal strip during rolling through the roll stand (i), the resistance to deformation ( $KSB_i$ ) equal to an average rolling stress  $T$  for a strain  $E$  in the metal strip in roll stand (i), and maintaining the relationship between the rolling stress  $T$  and strain  $E$  in accordance with the formula  $T = C \cdot f(E, E_c)$ , in which  $E$  and  $E_c$  have values dependent on the material of the strip,  $E_c$  being the critical strain while the strip is being rolled.

(Com. 10 pages;

Drawgs. 3 sheets)

Ind. Class: 131-B [GROUP XXVIII(3)]

170875

Int. Cl.<sup>4</sup>: E 21 B 45/00.

**APPARATUS FOR MEASURING THE RATE OF PENETRATION OF A DRILL BIT FIXED TO THE LOWER END OF A DRILL STRING IN A WELL.**

Applicant: FOREXNEPTUNE SA, A FRENCH COMPANY OF 50 AVENUE JEAN-JARUES, 92120 MONT-ROUGE, FRANCE.

Inventor: YVES KERBART.

Application No. 214/MAS/88 filed April 5, 1988.

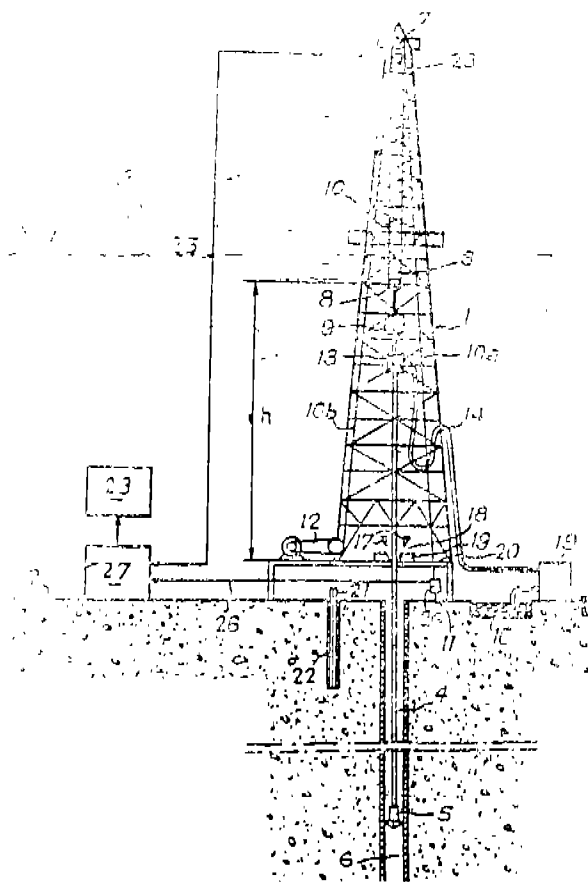
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

Application No. 221/MAS/88 filed April 6, 1988.

**Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.**

a hook for suspending the drill string; a vertically movable block carrying the said hook; measuring means for measuring the weight (F) of the drill string suspended from the hook during drilling; distance measuring means for measuring the height (h) of the block supporting the hook during drilling; time measuring means for measuring time (t) during drilling; recording means for recording measurements of F, h and t at a frequency of 5 Hz during drilling; digitizing means for digitizing said recorded measurements; and a programmed computer to determine the momentary rate of penetration  $V_s$  of the drill string at the surface and the modulus of apparent rigidity of the drill string from the recorded measurements and to determine the rate of penetration of the drill bit  $V_f$  from the measurements using the relationship

$$V_h = V_s + \lambda dF/dt$$



Drwgs. 2 sheets)

170876

(Com. 17 pages;

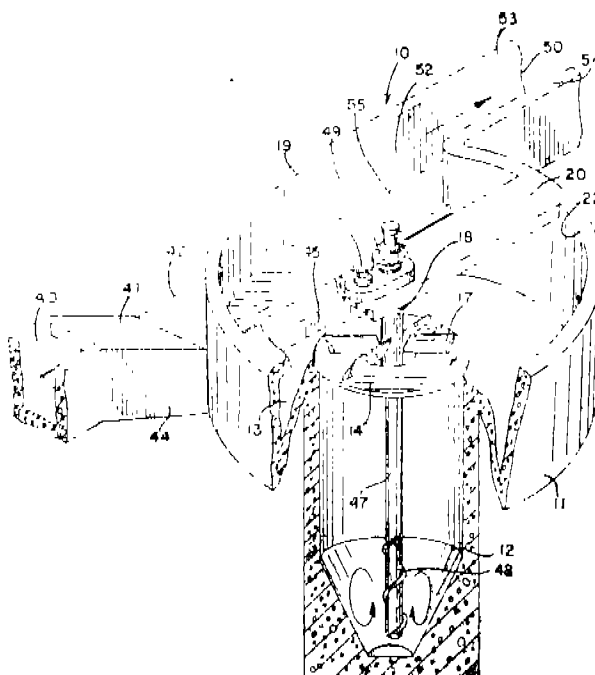
Drwgs. 3 sheets)

Ind. Class : 4A [GROUP IJII(1)]  
184[GROUP XXVIII(5)]

170877

Int. Cl.<sup>4</sup>: F 02 K 9/32.  
B 64 D 37/02.

## A PROPELLANT TANK FOR A SPAGECRAFT.



**Applicants:** BRITISH AEROSPACE PUBLIC LIMITED COMPANY, OF 11, STRAND, LONDON WC2N 5JT ENGLAND A BRITISH COMPANY.

**Inventors:** GRIMES COLIN THOMAS. HARDING ROBERT ANTHONY. BLOSSOM RICHARD ANTHONY. THONY.

Application No. 225/MAS/88 filed on 7th April 1988.

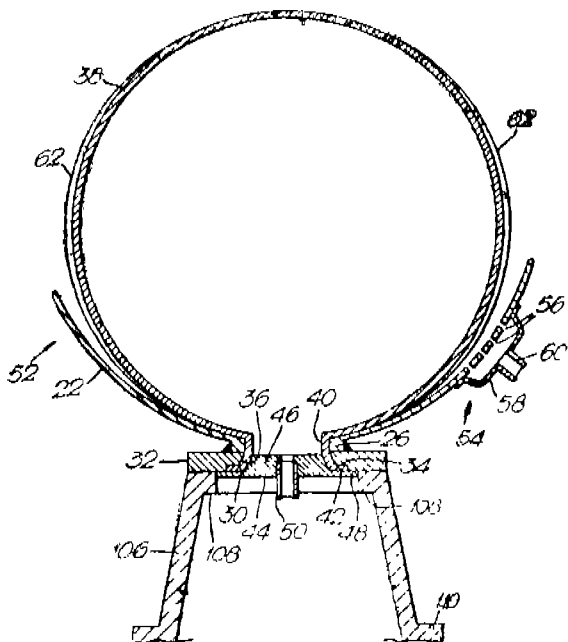
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Madras.

#### 19 Claims

A propellant tank for a spacecraft comprising a substantially spherical, one-piece propellant container having a propellant outlet and a gas inlet;

a substantially spherical inflatable bladder member mounted within said container, said bladder having a gas inlet port;

means for coupling said gas inlet port of said bladder to said gas inlet of said container.



(Com. specn. 21 pages

Drwgs. 6 sheets)

Ind. Cl.: 49 E [GROUP XV (1)]

170878

Int. Cl.: A 47 J 31/44.

**APPARATUS TO HEAT, EMULSIFY, WHIP, HARDEN, LIQUIDS OF DIFFERENT TYPES, PARTICULARLY MILK, CHOCOLATE, PUNCH AND THE LIKE.**

**Applicant:** BREVETTI GAGGIA S.p.A., AN ITALIAN COMPANY, OF 20087 ROBECCO SUL NAVIGLIO, MILAN, ITALY.

**Inventor:** BONANNO FRANCESCO.

Application No. 239/MAS/88 filed on 15th April 1988.

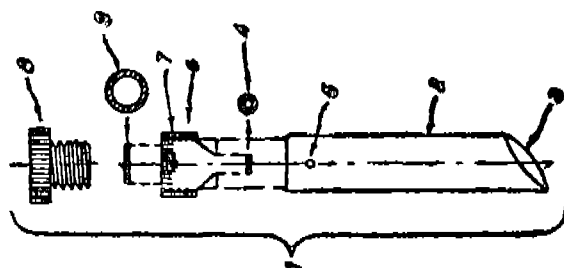
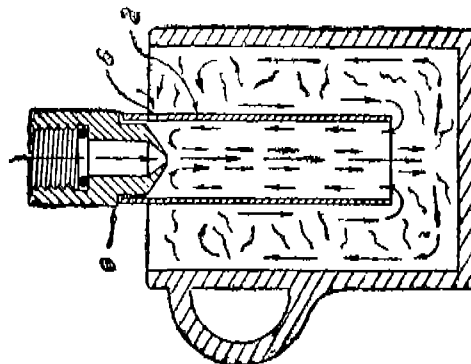
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

#### 8 Claims

Apparatus to heat, emulsify, whip, harden, liquids of different types, particularly milk, chocolate, punch and the like, comprising:

—a turbulence tube to be immersed in the liquid to be treated the wall of which is provided with a calibrated hole, being able to act as an air inlet; and

—a securing block hermetically mounted on the top of said turbulence tube and terminating at its lower portion in a calibrated hole, said block being able to be coupled to a source of steam through coupling means.



(Com. Specn. 8 pages;

Drwgs. 1 sheet)

Int. Cl.: 33-A & D—[GROUP—XXXIII(3)]

170879

Int. Cl.: B 22 D 18 04

**AN APPARATUS FOR COUNTERGRAVITY CASTING OF MOLTEN METAL AND A METHOD THEREOF.**

**Applicant:** METAL CASTING TECHNOLOGY, INC., OF 127 OLD WILTON ROAD, MILFORD, NEW HAMPSHIRE 03055, UNITED STATES OF AMERICA, A NEW HAMPSHIRE CORPORATION.

**Inventor:** GEORGE D. CHANDLEY.

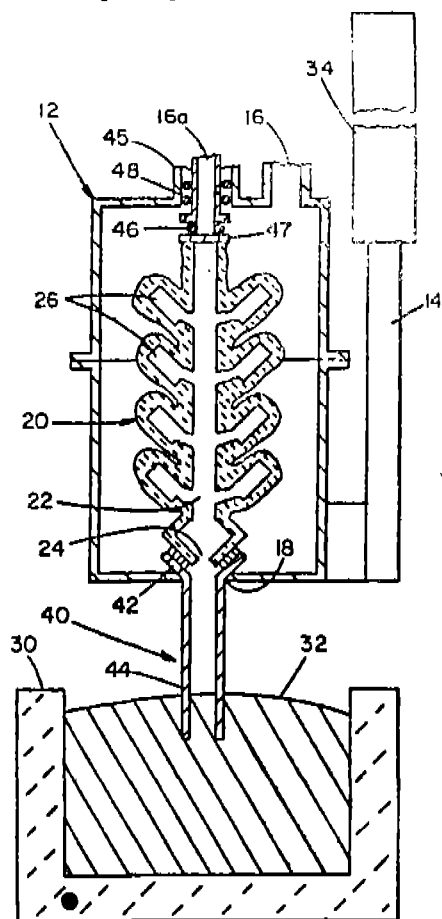
Application No. 265/MAS/88 filed April 26, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 9 Claims

An apparatus for countergravity casting of molten metal comprising a mold of gas permeable material having cavity means therein with a fill passage communicating laterally with other cavity means of said mold, said fill passage having a lower open end and an upper end above its uppermost communication with said other cavity means; a sealable mold support chamber for said mold; means for communicating the open lower end of the fill passage of said mold sealed in said chamber with a body of molten metal to be cast; and pressure reducing means communicating with said sealed chamber by first conduit means opening into said sealed chamber externally of and spaced from said mold for producing in said sealed chamber pressure sufficiently lower than the pressure on said molten metal making said molten metal to flow through said communicating means and said fill passage to fill said other mold cavity means; said pressure reducing means having differential pressure reducing means communicating with said sealed chamber by second conduit means opening into said sealed chamber and having an open end thereof in said chamber, and means for removably sealing said open end of said conduit means to the surface of said mold over the upper end of said fill passage, for selectively maintaining

the upper part of said mold fill passage at a lower reduced pressure than the pressure in said support chamber external to the mold during filling of said mold.



(Com.21 pages;

Draws.—3 sheets)

Ind. Cl. : 33-A & D—[GROUP—XXXIII(3)]

170880

Int. Cl.<sup>4</sup> : B 22 D 18 06

A METHOD AND AN APPARATUS FOR COUNTER GRAVITY CASTING OF MOLTEN METAL WITH THE EXCLUSION OF AIR.

Applicant : METAL CASTING TECHNOLOGY INC., OF 127 OLD WILTON ROAD, MILFORD, NEW HAMPSHIRE 03055, UNITED STATES OF AMERICA, A NEW HAMPSHIRE CORPORATION.

Inventor : GEORGE D. CHANDLEY.

Application No. 266/MAS/88 filed April 26, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

13 Claims

A method of counter gravity casting of molten metal with the exclusion of air in a gas-pervious mold sealed in an evacuable chamber with a fill pipe for the mold cavities having a free end projecting therefrom, comprising the steps of :

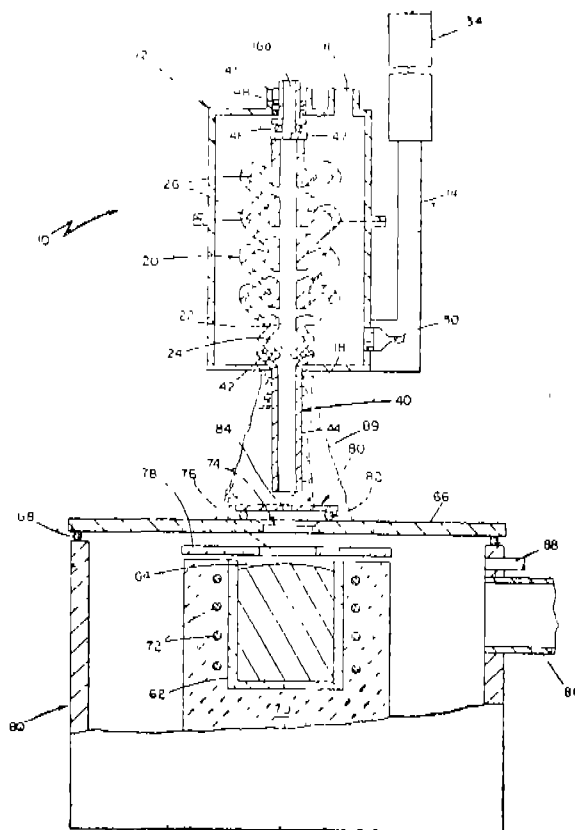
providing a supply of the molten metal to be cast in a crucible in an enclosure under a substantially air free atmosphere of inert gas, said enclosure having an opening therein adapted to receive the free end of said fill pipe there through and said enclosure being exposed to a source of ambient atmosphere between said opening and said chamber;

spacing the upper surface of said metal at a distance from the source of ambient atmosphere sufficient to prevent circu-

lating air currents from drawing air through said opening down to said metal and maintaining said surface at said distance except during the moving steps and during the filling of said mold;

relatively moving said fill pipe and said crucible enclosure to project the free end of said fill pipe through said crucible enclosure to a position below the surface of molten metal in said crucible, and evacuating said chamber to provide in the mold interior a pressure sufficiently lower than the pressure of said inert gas atmosphere in said crucible enclosure to cause molten metal to rise through said fill pipe to fill the cavities in said mold; and

thereafter reversely relatively moving said mold fill pipe and said crucible enclosure to withdraw said fill pipe through said opening.



82 (Com.—20 pages;

Draws.—5 sheets)

Cl. 157 D<sub>3</sub>

170881

Int. Cl. E 01 B 3/00, 5/00, 9/00, 27/00, 29/00, 31/00, 33/00.

"MOBIDE TIE GANG APPARATUS AND TIE EXCHANGE METHOD".

Applicant : FRANZ PLASSER BAHNBAUMASCHINEN-INDUSTRIE-GESELLSCHAFT M.B.H. OF A-1010 WIEN JOHANNESGASSE 3, AUSTRIA.

Inventors : (1) ING. JOSEF THEURER. (2) ING. HERBERT WORGOTTER.

Application No. 191/Cal/88 filed on 4th March 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

23 Claims

A mobile tie gang apparatus for sequentially exchanging selected consecutive groups of old ties in an existing railroad track for groups of new ties while retaining groups of old ties therebetween to support the mobile apparatus on the track, which comprises

(a) at least one bridge like work vehicle having a frame defining and upwardly recessed portion between respective ends thereof,

(b) swivel trucks supporting the work vehicle frame ends on the railroad track,

(c) a drive for the continuous advancement of the work vehicle on the railroad track in an operating direction,

(d) a succession of different individual devices mounted in the recessed frame portion of a respective work vehicle characterised by pre-selected different sequential operations of the devices for exchanging the selected old ties for the new ties, the tie exchanging devices including (i) at least one tie pulling and inserting device arranged for longitudinal displacement,

(ii) a respective drive for displacing each individual tie exchanging device with respect to the respective work vehicle

frame along a displacement path extending in the direction of the longitudinal extension of the work vehicle frame,

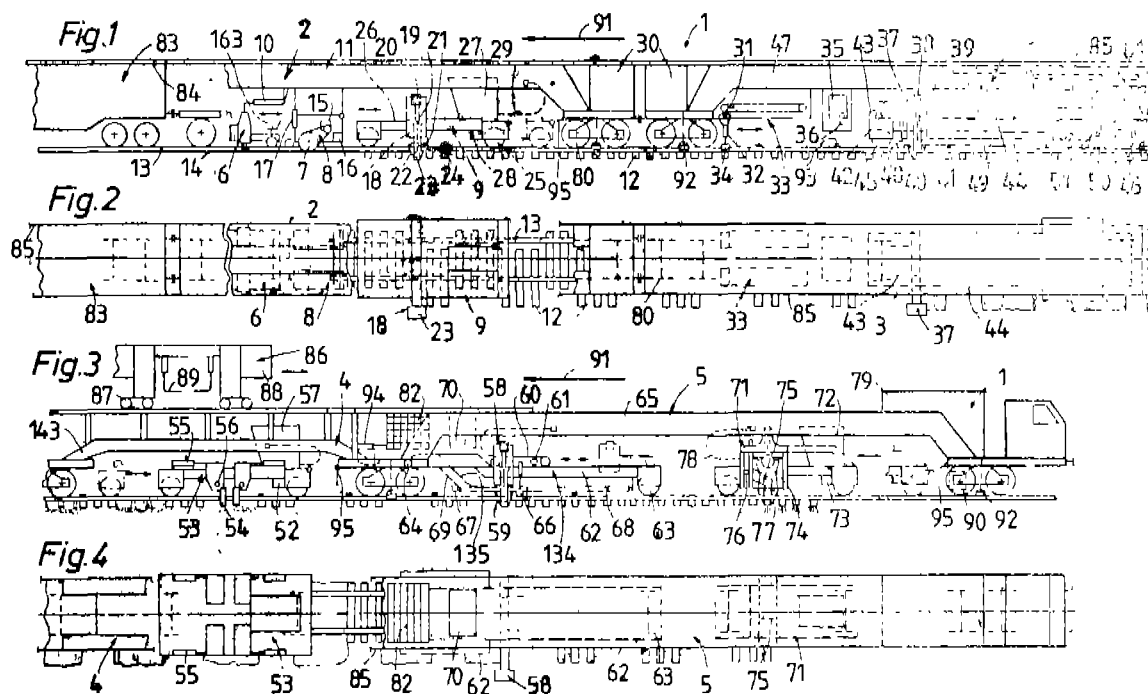
(iii) a vertical tie conveyor associated with each tie pulling and inserting device,

(iv) a tie transporting device between each tie pulling and inserting device and the associated vertical tie conveyor,

(v) an auxiliary carrier frame mounted in the recessed frame portion of the respective work vehicle and connected thereto, each tie pulling and inserting device and the associated vertical tie conveyor and tie transporting device being supported on the auxiliary frame,

(vi) a continuous guide track extending atop the work vehicle frame, and

(vii) a power-driven crane movable along the guide track for transporting the ties.



(Compl. specn. 49 pages.

Drwgs. 5 sheets)

Cl. 47 A C E.

170882

Int. Cl. : C 10 1/00, 1/02, 1/06.

"METHOD OF AND APPARATUS FOR PRODUCING COOLED AND DUST-FREE COKE FROM HIGH TEMPERATURE COKE".

Applicant : OTTO INDIA PRIVATE LIMITED. OF F 16, SECTOR-2, ROURKELA-769006, ORISSA, INDIA.

Inventors : (1) DR. KURT LORENZ,  
(2) DR. DIETER STALHERM,  
(3) HORST DUNGS,  
(4) DR. WERNER SCHUMACHER,  
(5) WILLI BRINKMANN.

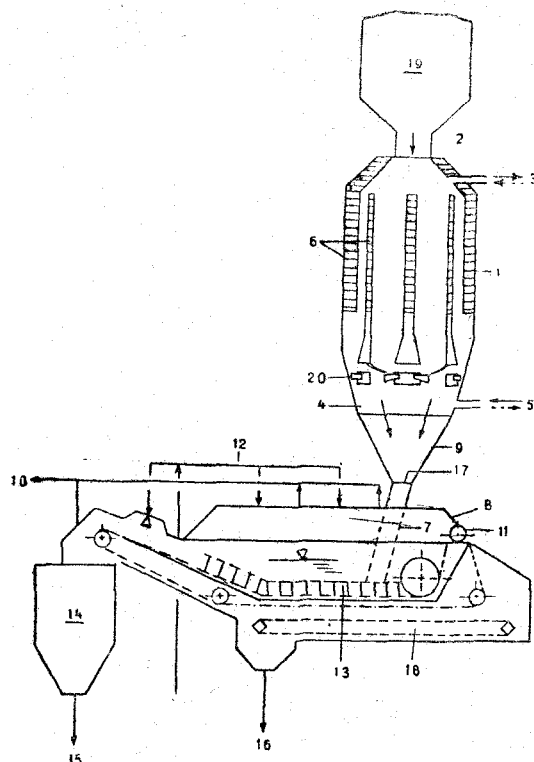
Application No. 325/Cal/88 filed on 22 April 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

10 Claims

Method of producing cooled and dust-free coke from high-temperature coke in at least two stages, the coke being cooled in the first stage to below 800°C, characterized in that in the first stage the coke is cooled to a temperature of from 200 to 800°C, preferably 400 to 650°C, in methods such as herein described, then is drawn continuously through a water bath in a closed system in a short time, for example, less than 3 minutes, and subsequently is maintained in a water vapour

atmosphere in a closed revaporization tank for a predetermined time, preferably less than 30 minutes.



Compl. specn.—13 pages.

Drgns.—1 sheet.

Cl. : 85 E J B

170883

Int. Cl. : F 27 D 1/00, 9/00.

"FURNACE PANEL ADAPTED FOR THE FLOW OF COOLANT THROUGH FLOW AND AN ARTICLE INCORPORATING SUCH PANELS".

Applicant : P. HOWARD INDUSTRIAL PIPEWORK SERVICES LIMITED OF 66 EFFINGHAM ROAD, SHEFFIELD S 4 7 YS, ENGLAND.

Inventor : PETER RAYMOND HOWARD.

Application No. 332/Cal/88 filed on 25 April 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

#### 17 Claims

A furnace panel adapted for the flow of coolant there-through and for use for example in a furnace comprising coolant flow tubing having a coolant inlet aperture at an inlet end of the coolant flow tubing and a coolant outlet aperture at an outlet end of the coolant flow tubing, the coolant flow tubing comprising a plurality of elongate tube lengths formed from hollow rectangular section material, the tube lengths being disposed in parallel relationship, either stacked one on top of the other or side-by-side, with adjacent external faces of adjacent top and bottom walls of adjacent tube lengths abutting one another, with the end of each tube length closed off by an end cap and with coolant flow apertures communicating between adjacent tube lengths adjacent the ends thereof such that, in use, coolant flows in at one end of each tube length, along the tube length, and out at the other end of

each tube length, to and through successive tube lengths of the panel.

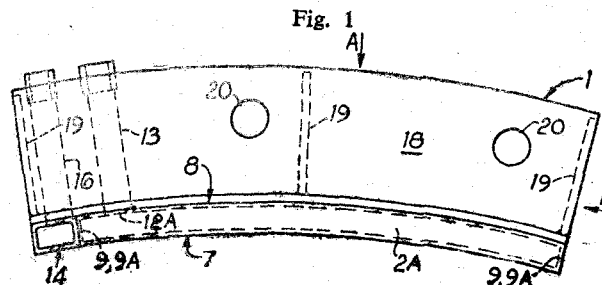
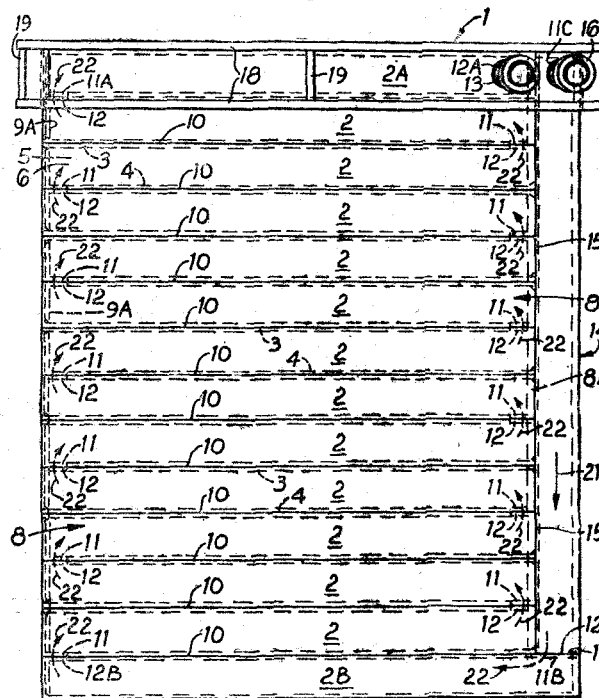


Fig. 2



Compl. specn. 16 pages.

Drgns. 5 sheets.

Cl. : 50 B, D

170884

Int. Cl. : F 24 F, 1/00.

"ROOM AIR CONDITIONER".

Applicant : WHITE CONSOLIDATED INDUSTRIES, INC. OF 11770 BEREA ROAD CLEVELAND, OHIO 44111 U.S.A.

Inventors : (1) R. STUART SAUBER, (2) PAUL J. HORVATH.

Application No. 883/Cal/88 filed on 25 October 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

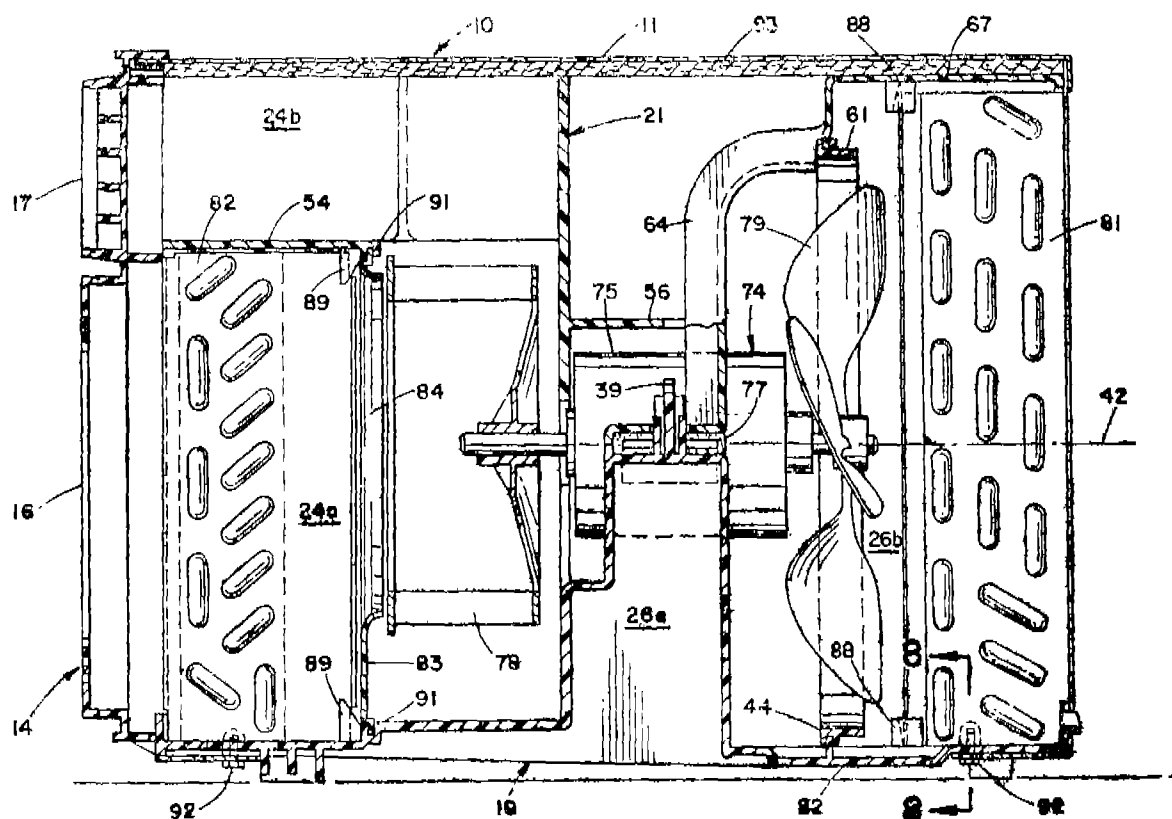
#### 15 Claims

An air conditioner comprising chassis members and a sheet metal wrapper, said chassis members cooperating with said wrapper to define separate evaporator and condenser chambers characterized in that said chassis members are a pair of molded polymeric chassis members cooperating to locate and support :

- a condenser heat exchanger unit within said condenser chamber,
- an evaporator heat exchanger unit within said evaporator chamber,

(c) a motor fan unit providing a fan in each chamber operable to move air through the associated heat exchanger, and

(d) a compressor unit in said condenser chamber, said chassis members cooperating to locate and support at least some of said units without separate fasteners.



Compl. specn. 25 pages.

Drgns. 2 sheet

CL : 108 C<sub>2</sub>

170885

Int. Cl. : G 01 K 25/00, C 21 C 5/00.

"AN IMPROVED SUBMERSIBLE CONTROL DEVICE".

Applicant : MANNESMANN AKTIENGESELLSCHAFT  
OF MANNESMANNUFER 2, D-4000 DUSSELDORF 1,  
WEST GERMANY.

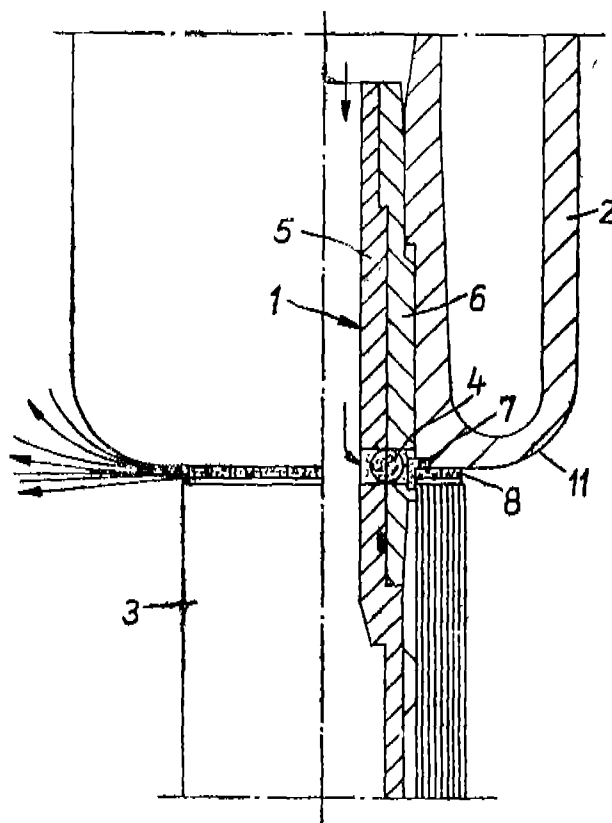
Inventors : (1) WILHELM SCHWARZ, (2) WINFRIED  
HEINZ.

Application No. 893/Cal/88 filed 27 October 1988.

Appropriate Office for Opposition Proceedings (Rule 4,  
Patent Rules 1972) Patent Office, Calcutta.

10 Claims

An improved submersible control device free from deposits in the region of the juncture between the lance and the probe of said control device to be inserted into molten material in a vessel, the improvement comprising of providing said lance with an interior channel for conducting a gas stream to said juncture, and at said juncture concentrically between said lance and said probe there is provided a gas-conducting disk which circumferentially projects said gas stream onto the lower surface of said lance at said juncture.



Compl. specn. 11 pages.

Drgns. 4 sheets.



Cl. : 127 B<sub>1</sub>

170886

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

Int. Cl. : F 16 C 3/00, 17/00, 21/00.

## ↓ ASSEMBLED SHAFT".

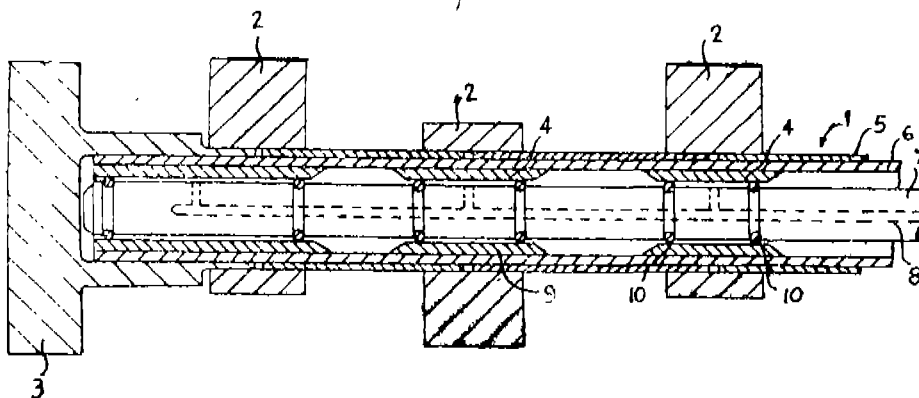
Applicant : EMITEC GESELLSCHAFT FÜR EMISSION-  
TECHNOLOGIE MBH, OF HAUPTSTRASSE 150, D-5204  
KARL 1, WEST GERMANY.

Inventors : (1) WOLFGANG MAUS, (2) HELMUT  
MAUS.

Publication No. 1057/Cal/88 filed 22 December 1988.

## 6 Claims

An assembled shaft consisting of a hollow shaft and elements with through-bores such as bearing bushes, cams or gear wheels attached to it by expanding it in individual associated longitudinal portions, characterized in that supporting sleeves (4) are located inside the said hollow shaft in longitudinal positions corresponding to the position of at least some of the elements, said sleeves being in circumferential contact with said hollow shaft and having been plastically expanded in situ and that at least the individual elements are under elastic pretension in their through-bore.



Compl. Specn. 7 pages.

Drgns. 1 sheet

Cl. : 10 E

170887

## 19 Claims

Int. Cl. : F 02 K 11 00.

## "PROCESS AND APPARATUS FOR PRODUCING PROPELLANT CHARGE GRANULAR MATERIALS".

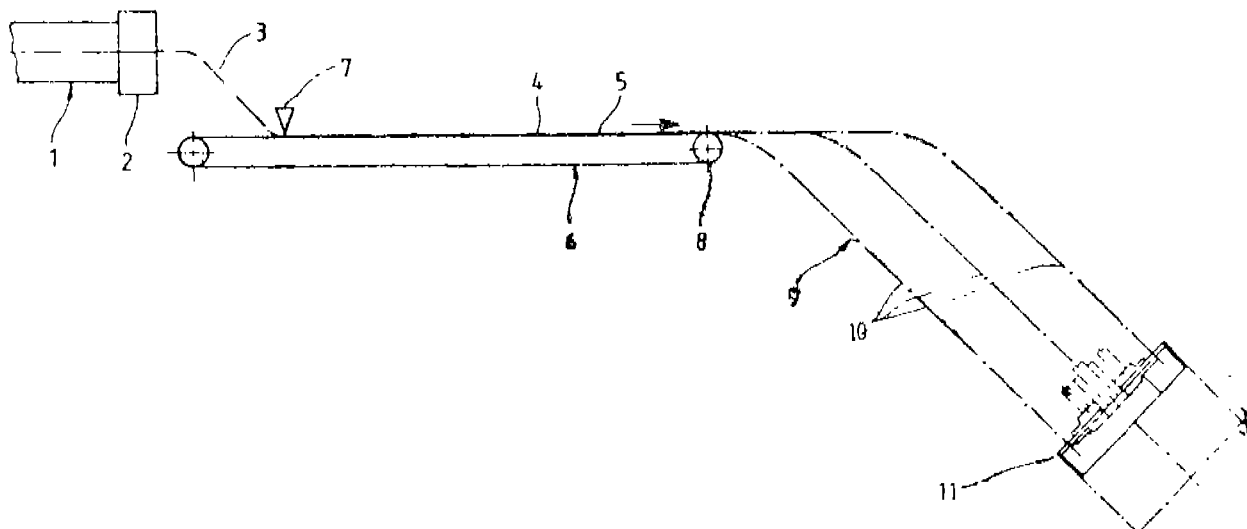
Applicant : FRAUNHOFER-GESELLSCHAFT ZUR  
FÖRDERUNG DER ANGEWANDTEN FORSCHUNG  
E.V. OF LEONRODSTRASSE 54, D-8000 MÜNCHEN 19,  
WEST GERMANY.

Inventors : (1) DIETMAR MÜLLER (2) HELMUT  
BAUER.

Application No. 95 Cal/89 filed on 31st January, 1989.

Appropriate Office for Opposition Proceedings (Rule 4,  
Patent Rules 1972) Patent Office, Calcutta.

Process for producing propellant charge granular material from small diameter propellant charge strands, whereof a plurality is continuously extruded, separately placed on a moved support behind the extruder and are supplied by means of the latter to a cutting plate with revolving cutting blades positioned behind it and by means of which they are cut to length characterized in that the support forms a setting zone for the propellant strands and that the latter are transferred by the support to a sloping zone and one the latter, under the assistance of their own weight, are supplied to the cutting plate with a number of guide holes corresponding to the number of strands and on passing out of the guide holes are simultaneously cut to the desired short length by means of the cutting blades relating behind the cutting plate.



Compl. Specn. 17 pages.

Drgs. 5 sheets.

Ind. Cl. : 127 G

170888

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

Int. Cl. : B 23 P 15/14

"GEARWHEEL".

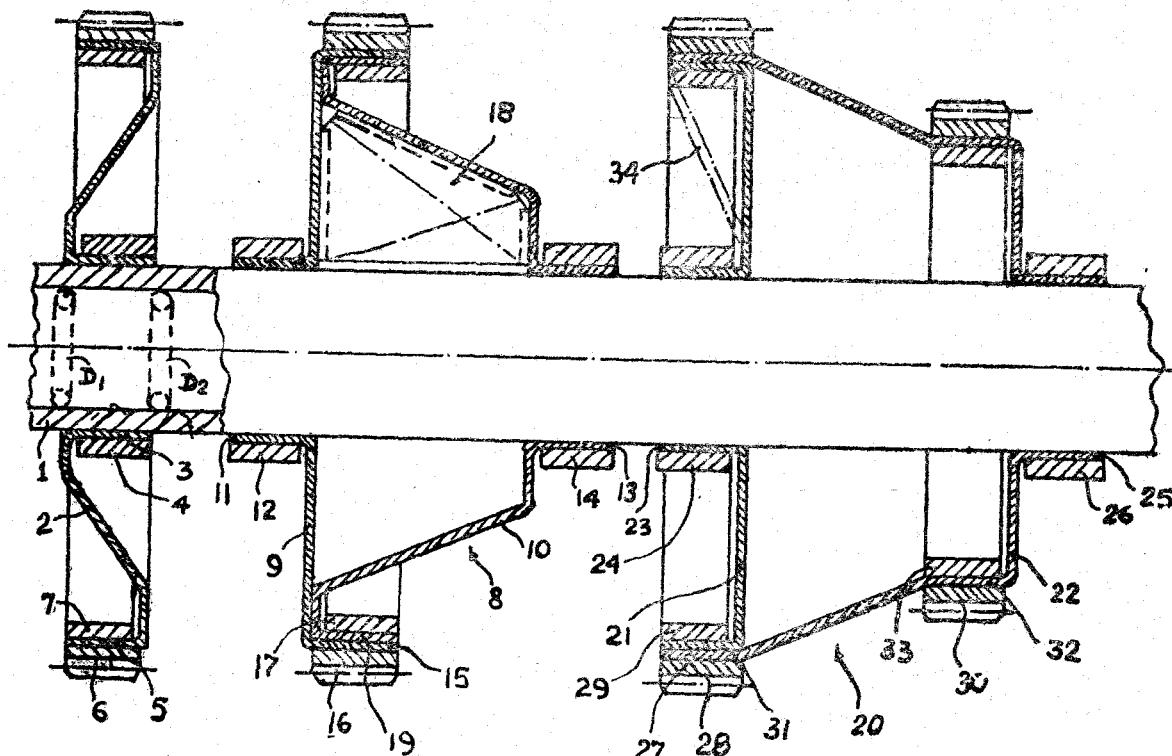
Applicant : EMITEC GESELLSCHAFT FÜR EMIS-  
SIONSTECHNOLOGIE MBH, OF HAUPTSTRASSE 150,  
D-5204 LOHMAR 1, WEST GERMANY.

Inventors : HELMUT SWARS.

Application No. 140/Cal/89 filed on 17 February, 1989.

10 Claims

A gearwheel attached to an expanded tube portion in a force-locking way, characterized by at least one plate metal disc member (2, 9, 10, 21, 22) having a cylindrical hub portion (3, 11, 13, 23, 25), by a supporting ring (4, 12, 14) which is slid thereupon and whose yield strength is higher than that of the tube portion (1), and by at least one gear ring (6, 16, 28, 30) attached to the disc member (2, 9, 10, 21, 22).



Compl. Specn. 9 pages.

Drgs. 1 sheet

Ind. Cl. : 172 C 3

170889

Int. Cl. : D 01 G 9/00

"THE DEVICE FOR THE OPENING AND CLEAN-  
ING OF FIBRE MATERIAL FLOW IN PARTICULAR  
COTTON."

Applicant : TRUTZSCHLER GMBH & CO. KG., OF  
DUVENSTR. 82-92, D-4050 MONCHENGLADBACH 3,  
WEST GERMANY.

Inventors : (1) HERR KONRAD TEMBURG (2) HERR  
FERDINANDLEIFELD (3) HERR DR. STEFAN SCHLI-  
CHTER.

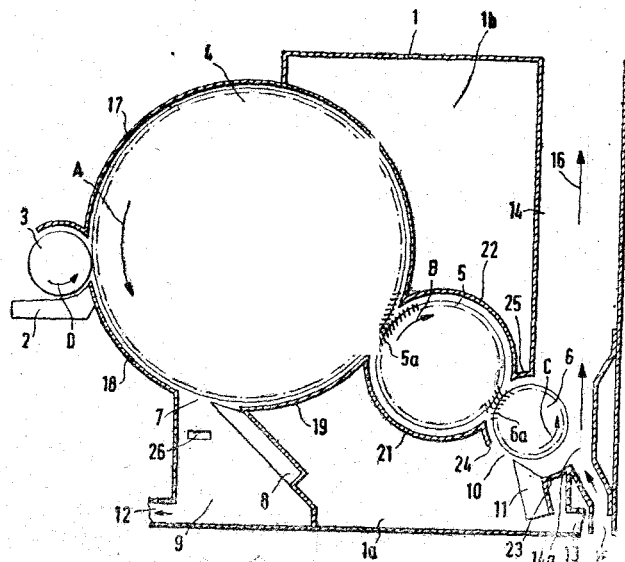
Application No. 507/Cal/89 filed on 29 June 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

13 Claims

A device for the opening and cleaning of fibre material flow, in particular cotton, with at least two trimming rollers placed after a guiding equipment, where at least one collecting edge each for the two trimming rollers is allocated for the pollutants with the ancillary collecting openings and where the centrifugal forces at the periphery of the second trimming roller are greater than that at the first trimming roller, wherein a third trimming roller (5) is placed between the first trimming roller (4) and the second trimming roller (6); the three trimming rollers (4, 5, 6) are placed one

after another; and the third trimming roller (5) interacts with the first trimming roller (4) and the second trimming roller (6) with the third trimming roller (5) in each case as taker-in and disintegrating rollers.



Compl. Specn. 16 Pages.

Drgs. 4 sheets.

Ind. Cl. : 195 D.

170890

Int. Cl. : F16K 25/00.

"AN APPARATUS FOR CLEANSING A DYNAMICALLY LOADED SEAL ASSEMBLY OF A VALVE".

Applicant and Inventors : DIPL-ING. HANS OTTO MÜTH, OF SANDKRUG 3, D-2058 SCHNAKENBEK, FEDERAL REPUBLIC OF GERMANY.

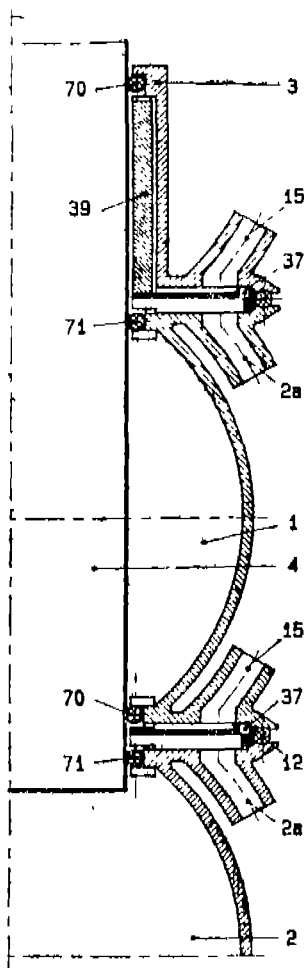
Application No. 914/Cal/90 filed on 29 October, 1990.

(Divisional of Application No. 34/Cal 88, Ante dated to 14-1-1988).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 12 Claims

An apparatus for cleaning a dynamically loaded seal assembly of a valve characterised in that, between the valve casing parts (1 and 2 or 3, respectively) a disk (37) is disposed either form-closed or power-locked and enclosing concentrically the valve part (4), which disk dips into the annular space (38) between the seals (70, 71) and forms with a separating wall (37a) disposed in the region of the combination level of the valve casing parts (1 and 2 or 3, respectively) on the one side in combination with the valve casing Part (1 or 3, respectively) a first annular space (44) and with the valve casing Part (2 or 1 respectively) on the other side a second annular space (45), the separating wall (37a) leaving a penetration gap (38a) free in the region of valve part (4) for the connection of the annular spaces (44) and (45) with each other, in that a casing seal (12) outside of disk (37) sealingly combines the valve casing parts (1 and 2 or 3, respectively), and in that the first annular space (44) comprises at least one connection port (15) and the second annular space (45) at least one outlet opening (2a).



Compl. Specn. 24 pages.

Drwg. 2 sheets.

## CLAIMS UNDER SECTION 20(1)

The Claim made by M/s General Electric Company under Section 20(1) of the Patent Act 1970 to Proceed the application for Patent No. 162796 (583/Cal/84) in their name has been allowed.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970.

The claim made by TAPROGGE GESELLSCHAFT MBH, in connection with Patent Application No. 974/MAS/86 (168663) has been allowed.

## PATENT SEALED ON 08-05-1992

166898 D 168062 168416 168519 168520 168552 168608\*  
168618 168621 168727\* 168731\* 168742 168743\* 168746\*  
168747 168749 168750\* 168772 168773 168774\* 168775\*  
168777\* 168778\* 168779 168780 168785 168789 168790\* D  
168805 168808 168821 168831 168843 168872 168950\*  
169538 169542

Cal-11, Mas-15, Del-06 & Bom-05.

\*Patent shall be deemed to be endorsed with the words "LICENCE OF RIGHT" under section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D--DRUG Patent.

## AMENDMENT PROCEEDING UNDER SECTION 57.

Proposed amendments under Section 57 of the Patents Act 1970, in respect of Patent Application No. 168663 (974/MAS/86) as advertised in the Gazette of India, dated 7-9-1991 have been allowed.

Proposed amendments under Section 57 of the Patents Act, 1970, in respect of Patent application No. 169291 (933/MAS/86) as advertised in the Gazette of India dated 30-11-1991 have been allowed.

Proposed amendments under Section 57 of the Patents Act, 1970, in respect of Patent Application No. 169299 (125/MAS/89) as advertised in the Gazette of India, dated 9-11-1991 have been allowed.

Notice is hereby given that The Research Foundation for Microbial Diseases of Osaka University, C/o. Osaka University : 3-1 Yamadaoka, Suita-Shi, Osaka, Japan have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 169960 for "A method for producing a non-A, non-B hepatitis virus antigen peptide".

The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office 234/4, Acharya Jagadish Bose Road, Calcutta 700 020 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## REGISTRATION OF ASSIGNMENTS, LICENCE ETC. (PATENTS)

Assignments, Licences or other transactions affecting the interests of the Original Patentees have been registered in the

following cases. The number of the case is followed by the name of the party claiming interests.

153576	De Nora Permelec S.P.A.
159672	Peoples Project Pvt. Ltd.
156432	Permea, Inc, U.S.A.
151581	Permea, Inc, U.S.A.
157351	Permea, Inc, U.S.A.
153458	Permea, Inc, U.S.A.
157358	Thermal Ceramic, Inc.
150497	Advanced Elastomer Systems, U.S.A.
159092	Advanced Elastomer Systems, U.S.A.
144973	De Nora Permelec, S.P.A.
146485	De Nora Permelec, S.P.A.
165632	Rosenmont Analytical Inc, U.S.A.
162667	Mannesmann Aktiengesellschaft, West German.
162596	Mannesmann Aktiengesellschaft, West German.
162595	Mannesmann Aktiengesellschaft, West German.
161608	Mannesmann Aktiengesellschaft, West German.
160228	Mannesmann Aktiengesellschaft, West German.
160152	Mannesmann Aktiengesellschaft, West German.
156667	Mannesmann Aktiengesellschaft, West German.
151957	BREL LIMITED.
152955	BREL LIMITED.
161775	Johnson & Johnson.
157531	Interamerican Zinc, Inc.
153020	Ashoke Stove Pvt. Ltd.
153021	Ashoke Stove Pvt. Ltd.
164307	Hannelore Bechem
164308	Hannelore Bechem
162386	Elgi Tyre & Tread Ltd.
156992	Bridgestone Corporation
157597	Bridgestone Corporation
162374	Applied Industrial Materials Corporation.
162964	Molan Swingtee GmbH.
163769	The Morgan Crucible Company, PLC.
146975	The M. W. Kellogg Company, U.S.A.
161520	CLECIM, France.
164991	Johnson & Johnson U.S.A.
162512	KAMTERTER, INC. U.S.A.
161983	KAMTERTER, INC. U.S.A.
150211	Kemtron International (Holdings) Ltd Hong Kong.
156346	Tube Investments of India Limited.
158406	Sunbird Seals and Plastics Pvt. Ltd.
163204	Strachan & Henshaw Limited.
156855	1. Kalyan Coal Depot Pvt. Ltd.
	2. Arvind Fuels Pvt. Ltd.
	3. Ashoka Smokeless Coal Industries Pvt. Ltd.

4. Arya Coke Udyog
5. Aman Coke Plant Pvt. Ltd.
6. R. S. Coke Industries Pvt. Ltd.
7. Pandit Fuel Company Pvt. Ltd.
8. Solar Carbons Pvt. Ltd.
9. R. K. Coal Sales Pvt. Ltd.
10. Swarnarekha Cokes & Coals Pvt. Ltd.
11. Shadi Fuels Pvt. Ltd.
12. Swastik Cement Product Pvt. Ltd.
13. Darolia Industries
14. Rungta Fuels Pvt. Ltd.
15. Rewa Fuels.
16. Ganga Fuels Pvt. Ltd.
17. Bahubali Techno Engineers Pvt. Ltd.
18. Nirdhoom Indhan.
19. Coal Tarcol Utpadak Audyogic Sahyog Samiti Ltd.
20. Interlink Coal Pvt. Ltd.
21. Darolia Coke Industries Pvt. Ltd.
22. Mahabir Coal Fuel.
23. Shakti Coke Industries.
24. Fiitec Fuel & Flames Pvt. Ltd.
25. Fertico Marketing & Investment Pvt. Ltd.
26. Eastern Flames Pvt. Ltd.
27. Bahri Industrial Fuel Pvt. Ltd.
28. Magadh Smokeless Cooking Coal Industries Pvt. Ltd.
166463 Macrotech Fluid Sealing Inc.
154128 Stena Offshore Limited.

## RENEWAL FEES-PAID

150001	150709	150949	150991	151007	151075	151575
151860	151949	152021	152114	152211	152485	152522
152560	152931	153035	153655	153853	153959	153978
154115	154429	154622	154640	154940	155371	155962
156109	156403	156927	156990	157455	157470	157495
157668	157735	157990	158147	158270	158272	158315
158771	158952	159009	159151	160160	160325	160326
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165005	165330	165457	165644	165923	165983	166065
167158	167552	167695	168632	168633	168637	168638
168652	168660	168675	168837.			

## CESSATION OF PATENTS

157119	157121	157127	157129	157130	157132	157136
157138	157141	157147	157148	157150	157153	157154
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157253	157259	157263	157265	157266	157267	157269
157270	157273	157278	157279	157280	157283	157385
157290	157291	157292.				

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry:

Class 3. No. 164172 Shinar Trust of G-37, Connaught place, New Delhi-110001, India, Indian Trust. "Room Cooler". March 23, 1992.

Class 5. No. 164176. Munch Food Products Pvt. Ltd. of D-992, New Friends Colony, New Delhi-110065, India. "Box", March 23, 1992.

Class 12. No. Munch Food Products Pvt. Ltd. of D-992, New Friends Colony, New Delhi-110065, India. "Chocolate". March 23, 1992.

Copyright extended for the third period of five years

Nos. 163319, 151441, 151442, 151443, 163042 & 162617.—  
Class 1.

Nos. 163324, 151839, 157463, 163363, 163041, 151262 and 158141. Class 3.

Nos. 151660 and 151652 Class 4.

R. A. ACHARYA

Controller General of Patents, Designs  
and Trade Marks.

प्रबन्धक, भारत सरकार मुद्रणालय, फरीदाबाद द्वारा मुद्रित

एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1992

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD

AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1992

